

From the INTERNATIONAL BUREAU

**PCT**

NOTIFICATION OF TRANSMITTAL  
OF COPIES OF TRANSLATION  
OF THE INTERNATIONAL PRELIMINARY REPORT  
ON PATENTABILITY  
(CHAPTER I OR CHAPTER II  
OF THE PATENT COOPERATION TREATY)  
(PCT Rules 44bis.3(c) and 72.2)

To:

YAMANO, Hiroshi  
KEIMEI PATENT OFFICE  
10F, ASTRO Shin Osaka 2 Bldg.  
1-3, Nishinakajima 6-chome, Yodogawa-ku  
Osaka-shi, Osaka 532-0011  
JAPON



Date of mailing (day/month/year) 04 May 2006 (04.05.2006)	
Applicant's or agent's file reference PCT-2004-010	IMPORTANT NOTIFICATION
International application No. PCT/JP2004/008342	International filing date (day/month/year) 15 June 2004 (15.06.2004)
Applicant SUMITOMO (SEI) STEEL WIRE CORP. et al	

## 1. Transmittal of the translation to the applicant.



The International Bureau transmits herewith a copy of the English translation of the international preliminary report on patentability (Chapter I).



The International Bureau transmits herewith a copy of the English translation of the international preliminary report on patentability (Chapter II).

## 2. Transmittal of the copy of the translation to the designated or elected Offices.

The International Bureau notifies the applicant that copies of that translation have been transmitted to the following designated or elected Offices requiring such translation:

None

The following designated or elected Offices, having waived the requirement for such a transmittal at this time, will receive copies of that translation from the International Bureau only upon their request:

AE, AG, AL, AM, AP, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EA, EC, EE, EG, EP, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OA, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

## 3. Reminder regarding translation into (one of) the official language(s) of the elected Office(s).

The applicant is reminded that, where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary report on patentability (Chapter II).

It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned within the applicable time limit (Rule 74.1). See Volume II of the PCT Applicant's Guide for further details.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer  Yoshiko Kuwahara
Facsimile No.+41 22 740 14 35	Facsimile No.+41 22 338 90 90

# PATENT COOPERATION TREATY

# PCT

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter I of the Patent Cooperation Treaty)

(PCT Rule 44bis)

Applicant's or agent's file reference PCT-2004-010	<b>FOR FURTHER ACTION</b>	See item 4 below
International application No. PCT/JP2004/008342	International filing date ( <i>day/month/year</i> ) 15 June 2004 (15.06.2004)	Priority date ( <i>day/month/year</i> ) 19 June 2003 (19.06.2003)
International Patent Classification (8th edition unless older edition indicated) See relevant information in Form PCT/ISA/237		
Applicant SUMITOMO (SEI) STEEL WIRE CORP.		

1. This international preliminary report on patentability (Chapter I) is issued by the International Bureau on behalf of the International Searching Authority under Rule 44 bis.1(a).

2. This REPORT consists of a total of 4 sheets, including this cover sheet.

In the attached sheets, any reference to the written opinion of the International Searching Authority should be read as a reference to the international preliminary report on patentability (Chapter I) instead.

3. This report contains indications relating to the following items:

- |                                     |              |   |
|-------------------------------------|--------------|---|
| <input checked="" type="checkbox"/> | Box No. I    | Basis of the report   |
| <input type="checkbox"/>            | Box No. II   | Priority  |
| <input type="checkbox"/>            | Box No. III  | Non-establishment of opinion with regard to novelty, inventive step and industrial applicability.   |
| <input type="checkbox"/>            | Box No. IV   | Lack of unity of invention  |
| <input checked="" type="checkbox"/> | Box No. V    | Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement |
| <input type="checkbox"/>            | Box No. VI   | Certain documents cited   |
| <input type="checkbox"/>            | Box No. VII  | Certain defects in the international application  |
| <input type="checkbox"/>            | Box No. VIII | Certain observations on the international application   |

4. The International Bureau will communicate this report to designated Offices in accordance with Rules 44bis.3(c) and 93bis.1 but not, except where the applicant makes an express request under Article 23(2), before the expiration of 30 months from the priority date (Rule 44bis .2).

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland  Facsimile No. +41 22 740 14 35	Date of issuance of this report 24 April 2006 (24.04.2006)  Authorized officer  <p style="text-align: center; font-weight: bold;">Yoshiko Kuwahara</p> Telephone No. +41 22 338 90 90
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# PATENT COOPERATION TREATY

TRANSLATION

From the  
INTERNATIONAL SEARCHING AUTHORITY

## PCT

WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY

(PCT Rule 43bis.1)

To:

Date of mailing (day/month/year)
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Applicant's or agent's file reference <b>PCT-2004-010</b>		FOR FURTHER ACTION See paragraph 2 below	
International application No. <b>PCT/JP2004/008342</b>	International filing date (day/month/year) <b>15.06.2004</b>	Priority date (day/month/year) <b>19.06.2003</b>	
International Patent Classification (IPC) or both national classification and IPC			
Applicant <b>SUMITOMO (SEI) STEEL WIRE CORP.</b>			

1. This opinion contains indications relating to the following items:

<input checked="" type="checkbox"/>	Box No. I	Basis of the opinion
<input type="checkbox"/>	Box No. II	Priority
<input type="checkbox"/>	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
<input type="checkbox"/>	Box No. IV	Lack of unity of invention
<input checked="" type="checkbox"/>	Box No. V	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
<input type="checkbox"/>	Box No. VI	Certain documents cited
<input type="checkbox"/>	Box No. VII	Certain defects in the international application
<input type="checkbox"/>	Box No. VIII	Certain observations on the international application

2. **FURTHER ACTION**

If a demand for international preliminary examination is made, this opinion will be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA") except that this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of 3 months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA/JP	Authorized officer
Facsimile No.	Telephone No.

WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/JP2004/008342

Box No. I      Basis of this opinion

1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.  
☐ This opinion has been established on the basis of a translation from the original language into the following language \_\_\_\_\_, which is the language of a translation furnished for the purposes of international search (under Rule 12.3 and 23.1(b)).
2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
  - a. type of material  
☐ a sequence listing  
☐ table(s) related to the sequence listing
  - b. format of material  
☐ in written format  
☐ in computer readable form
  - c. time of filing/furnishing  
☐ contained in the international application as filed.  
☐ filed together with the international application in computer readable form.  
☐ furnished subsequently to this Authority for the purposes of search.
3. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table(s) relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additional comments:

WRITTEN OPINION OF THE  
INTERNATIONAL SEARCHING AUTHORITY

International application No.

PCT/JP2004/008342

Box No. V	Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement		
<b>1. Statement</b>			
Novelty (N)	Claims	1-20	YES
	Claims		NO
Inventive step (IS)	Claims		YES
	Claims	1-20	NO
Industrial applicability (IA)	Claims	1-20	YES
	Claims		NO
<b>2. Citations and explanations:</b>			
<p>Document 1: JP, 7-278717, A (Ube Industries, Ltd.), 24 October, 1995 (24.10.95)</p> <p>Document 2: JP, 5-504 602, A (Allied Signal Inc.), 15 July 1993 (15.07.93) &amp; WO, 91/13181 A1</p> <p>Document 3: JP, 60-221142, A (Kobe Steel, Ltd), 05 November 1985 (05.11.85)</p> <p>Document 4: JP, 11-172359, A (Furukawa Electric Co. Ltd), 29 June 1999 (29.06.99)</p> <p>The subject matters of claims 1-5 do not appear to involve an inventive step in view of document 1 (Table 1, page 1 to Table 6, page 7) or document 2 (lines 10 to line ,right lower column, page 2) and document 3 (line 6 to line 15, left upper column, page 2), cited in the ISR.</p> <p>It is well known technology that magnesium alloy is used to manufacture screws, and a person skilled in the art could easily conceived manufacturing magnesium alloy screws by use of magnesium alloy of high tensile strength described in documents 1 and 2.</p> <p>The tensile strength of magnesium alloy disclosed in document 1 is noted to be 205MP a (Example 18), which differs from that of the claimed invention only by several percent, so that the present invention is not found to have remarkable effect as compared with the cited reference.</p> <p>Further, a person skilled in the art could have easily conceived adding Zn-Zr to magnesium alloy.</p> <p>The subject matters of claims 6-20 do not appear to involve an inventive step in view of document 2 or 3 ( lines 6-15, left upper column, page 2 to line 8, right upper column), and document 4 ( Par. No. [0008] right column, page 3 to Par. No. [0023] right column, page 3) cited in the ISR.</p> <p>The two-stage plastic working of magnesium alloy that allows plastic working at low temperature in the final state is noted in document 3, and a person skilled in the art could have easily conceived making it possible to carry out thread rolling of magnesium alloy at low temperature after drawing process in a manner described in document 4.</p> <p>The handling, cutting and heat treatment of claims 8-16 are found to be processes that can be easily performed as required by a person skilled in the art in the field of screw manufacturing .</p>			